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(FILE 'HOME' ENTERED AT 14:39:14 ON 18 DEC 2003)

FILE 'REGISTRY' ENTERED AT 14:39:23 ON 18 DEC 2003

L1 STRUCTURE UPLOADED  
L2 0 S L1 SSS  
L3 18 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 14:41:48 ON 18 DEC 2003

=> s l3

L4 8 L3

=> d bib abs hitstr 1-8

L4 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2003:628290 CAPLUS  
DN 139:157469  
TI Alkali-resistant antireflective films, their manufacture, and display devices therewith  
IN Obayashi, Tatsuhiko; Hosokawa, Takashi; Nakamura, Kenichi; Okawa, Atsuhiko  
PA Fuji Photo Film Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 17 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003227901	A2	20030815	JP 2002-26092	20020201
	US 2003175502	A1	20030918	US 2003-354961	20030131
PRAI	JP 2002-26092	A	20020201		

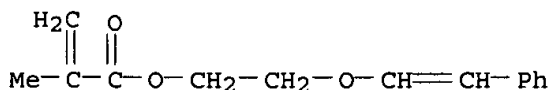
AB The films, suited for mass prodn. and having superior strength of coating layers, are manufd. by application of coatings contg. crosslinkable polymer-dispersed 1-200-nm-diam. (av.) inorg. microparticles on substrates and their curing to form high-n layers of n 1.65-2.40. The films have low-n layers of n 1.20-1.55. The films show superior scratch and wear resistance even after sapon.

IT 572902-73-9P  
RL: DEV (Device component use); IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (high-n layers; mass prodn. of sapon.-resistant antireflective films having ultrahigh-n layers of high transparency for displays)

RN 572902-73-9 CAPLUS  
CN 2-Propenoic acid, 2-methyl-, 2-[(2-phenylethenyl)oxy]ethyl ester, polymer with 2-(dimethylamino)ethyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

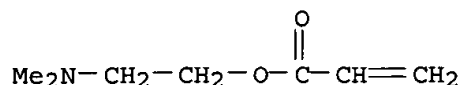
CRN 180598-93-0  
CMF C14 H16 O3



CM 2

CRN 2439-35-2

CMF C7 H13 N O2



L4 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2003:148006 CAPLUS

DN 138:189008

TI Curable films and electric insulators with good thermal shock resistance and dielectric properties

IN Saito, Takao; Kon, Shigeto; Satake, Shuichi; Inoue, Masahito

PA Sanyo Chemical Industries, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 31 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003055481	A2	20030226	JP 2001-242943	20010809
PRAI	JP 2001-242943		20010809		

AB Title films comprise a curable resin (A) with Tg before curing 50-150.degree., Mw 10,000-1,00,000, and .gtoreq.2 crosslinkable functional groups selected from epoxy, (meth)acryloyl, alkenylamino, and alkenyloxy groups, where the dielec. const. of A after curing is .ltoreq.3.2. Thus, 200 parts glycidyl methacrylate and 200 parts styrene were polyemd. in the presence of 170 parts JSR-TR 2250 and 1.5 parts azobisisobutyronitrile to give a 40%-solids JSR-TR 2250-dispersed glycidyl methacrylate-styrene copolymer soln., 175 parts of which was mixed with 30 parts resorcinol diglycidyl ether and 6 parts 2-ethyl-4-methylimidazole, applied on a PET release film, and dried to give a curable film. The film was thermally cured to give a insulator showing good thermal shock resistance, dielec. const. (1 GHz) 2.9, dielec. dissipation factor 0.009, vol. resistivity 5.1 .times. 10<sup>16</sup> .OMEGA./cm, tensile strength 16,000 kg/mm<sup>2</sup>, and thermal expansion coeff. 45 ppm/.degree..

IT 498555-32-1P

RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(blend with TR 2250, curable or cured; prepn. of curable films for elec. insulators)

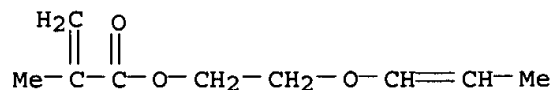
RN 498555-32-1 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(1-propenyloxy)ethyl ester, polymer with ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 220008-93-5

CMF C9 H14 O3



CM 2

CRN 100-42-5

CMF C8 H8

H<sub>2</sub>C=CH-Ph

L4 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2002:327973 CAPLUS  
DN 136:348396  
TI Optical compensatory sheet and liquid crystal display  
IN Yokoyama, Shigeki; Kawata, Ken; Nishikawa, Hideyuki; Matsuoka, Koshin;  
Aminaka, Eiichiro; Ito, Yoji  
PA Fuji Photo Film Co., Ltd., Japan  
SO U.S., 46 pp., Cont.-in-part of U.S. Ser. No. 226,172, abandoned.  
CODEN: USXXAM  
DT Patent  
LA English  
FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6380996	B1	20020430	US 2000-616365	20000713
	JP 2001027706	A2	20010130	JP 1999-199442	19990713
	JP 2000304931	A2	20001102	JP 2000-6772	20000114
PRAI	JP 1998-1931	A	19980107		
	JP 1998-114168	A	19980409		
	US 1999-226172	B2	19990107		
	JP 1999-199442	A	19990713		
	JP 2000-6772	A	20000114		
	JP 1999-38893	A	19990217		

AB The present invention relates to an optical compensatory sheet comprising an optically anisotropic layer formed of discotic liq. crystal mols. provided on a transparent substrate. The liq. crystal mols. are horizontally aligned in the optically anisotropic layer. An av. inclined angle between discotic planes of the discotic liq. crystal mols. and a surface of the transparent substrate is < 5.degree.. The discotic liq. crystal mols. are fixed in the optically anisotropic layer while keeping the horizontal alignment. A wide viewing angle and a rapid response of a liq. crystal display of a vertical alignment mode or a bend alignment mode are improved by using optical compensatory sheet of the present invention.

IT 416875-00-8P 416875-44-0P 416875-46-2P  
416875-48-4P

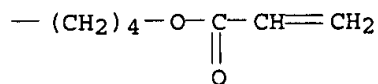
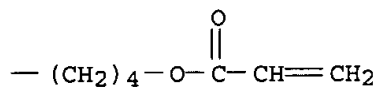
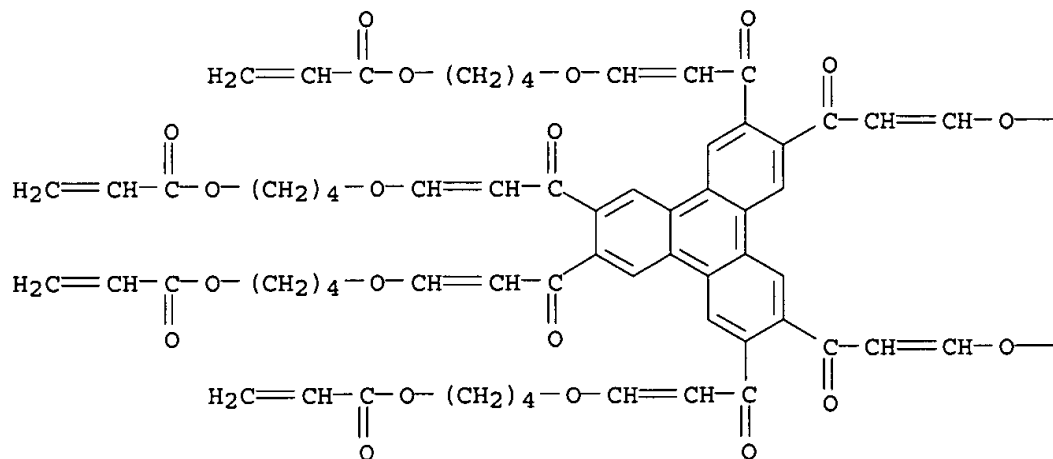
RL: DEV (Device component use); PEP (Physical, engineering or chemical process); PNU (Preparation, unclassified); PRP (Properties); PREP (Preparation); PROC (Process); USES (Uses)  
(liq. crystal display optical compensatory sheet contg. polymd. discotic liq. crystals and melamine compd.)

RN 416875-00-8 CAPLUS

CN 2-Propenoic acid, 2,3,6,7,10,11-triphenylenehexaylhexakis[(3-oxo-1-propene-3,1-diyl)oxy-4,1-butanediyl] ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 416874-99-2  
CMF C78 H84 O24



RN 416875-44-0 CAPLUS

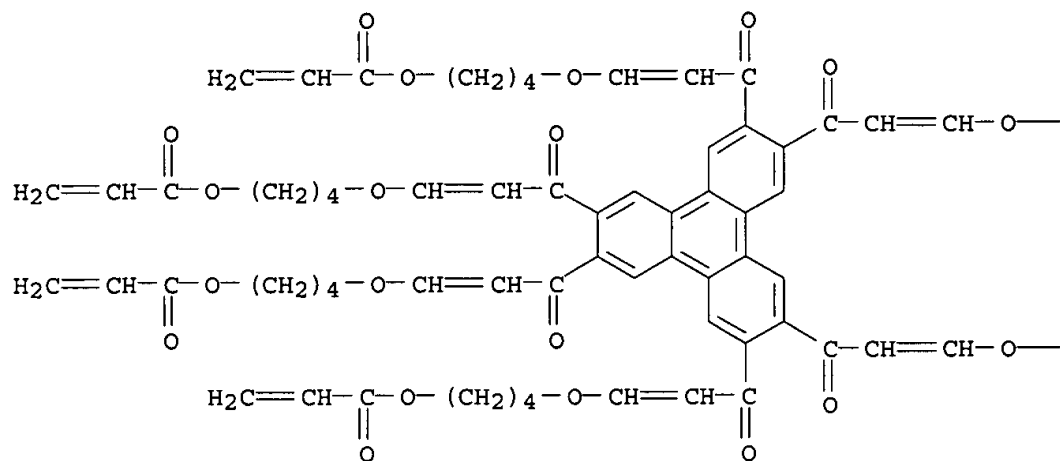
CN Benzoic acid, 4,4',4''-(1,3,5-triazine-2,4,6-triyltriimino)tris-, tris[12-[(2-methyl-1-oxo-2-propenyl)oxy]dodecyl] ester, polymer with 2,3,6,7,10,11-triphenylenehexaylhexakis[(3-oxo-1-propene-3,1-diyl)oxy-4,1-butanediyl] hexakis[2-propenoate] (9CI) (CA INDEX NAME)

CM 1

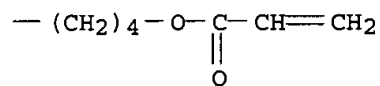
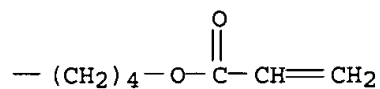
CRN 416874-99-2

CMF C78 H84 O24

PAGE 1-A



PAGE 1-B

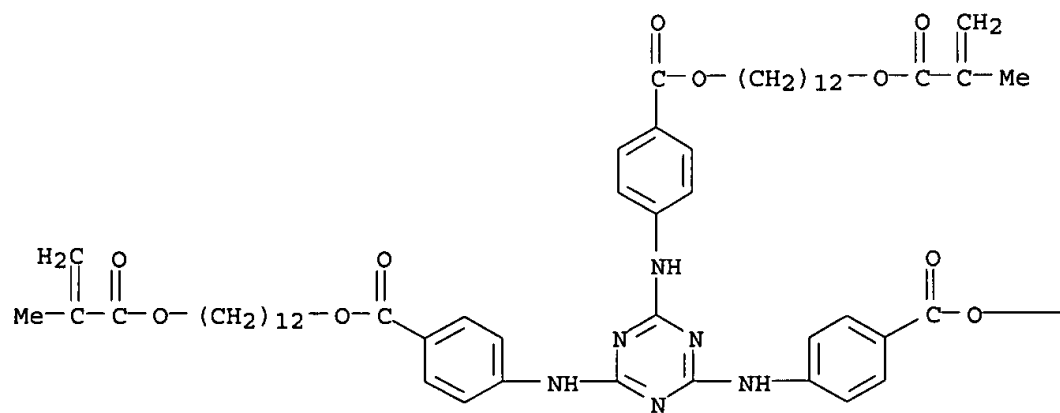


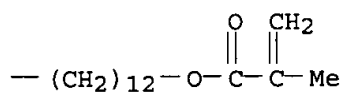
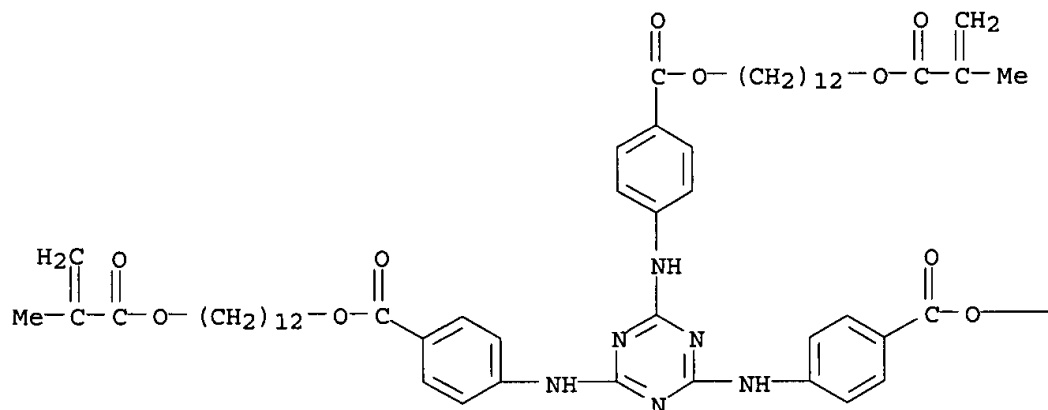
CM 2

CRN 229615-42-3

CMF C72 H102 N6 O12

PAGE 1-A





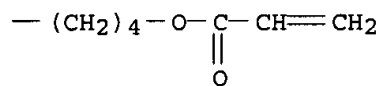
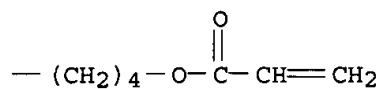
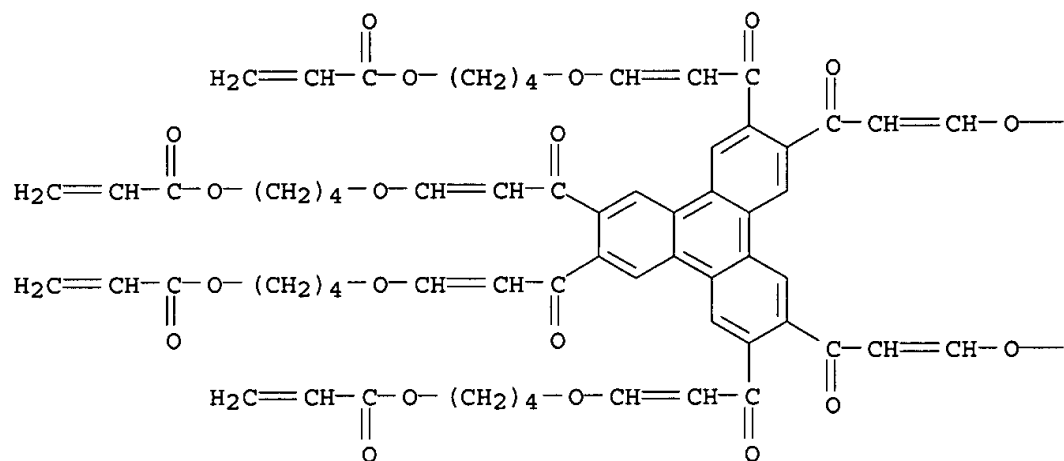
RN 416875-46-2 CAPLUS

CN 2-Propenoic acid, 2,3,6,7,10,11-triphenylenehexaylhexakis[(3-oxo-1-propene-3,1-diyl)oxy-4,1-butanediyl] ester, polymer with 1,3,5-triazine-2,4,6-triyltris[imino[3-[(phenylamino)sulfonyl]-6,1-naphthalenediyl]oxy-12,1-dodecanediyl] tri-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 416874-99-2

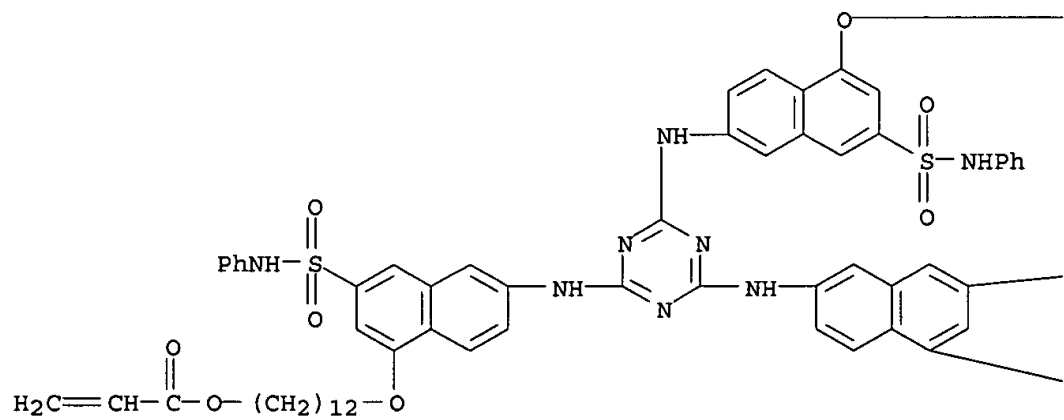
CMF C78 H84 O24

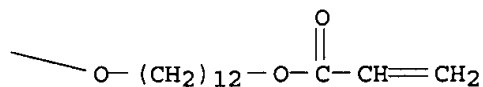
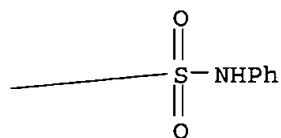
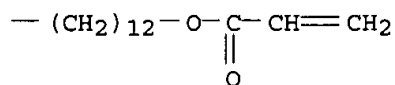
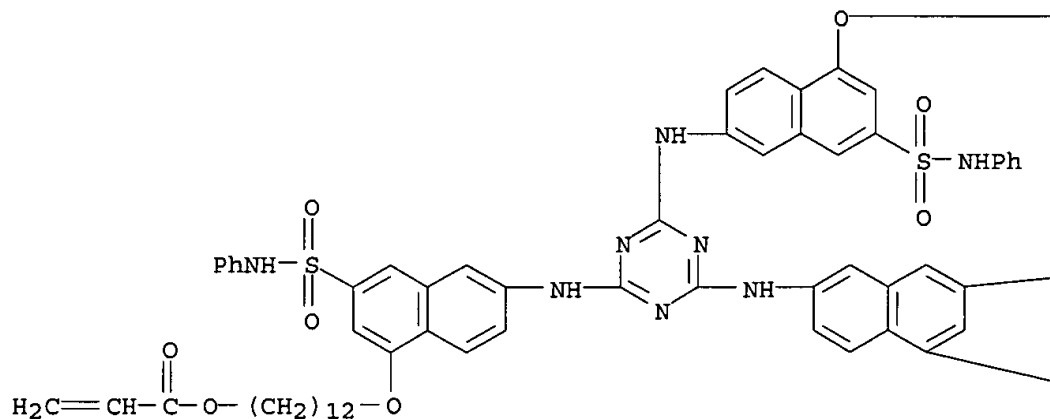


CM 2

CRN 229615-44-5

CMF C96 H117 N9 O15 S3





RN 416875-48-4 CAPLUS

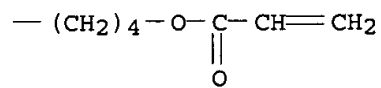
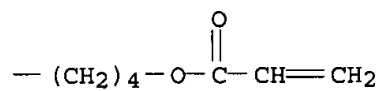
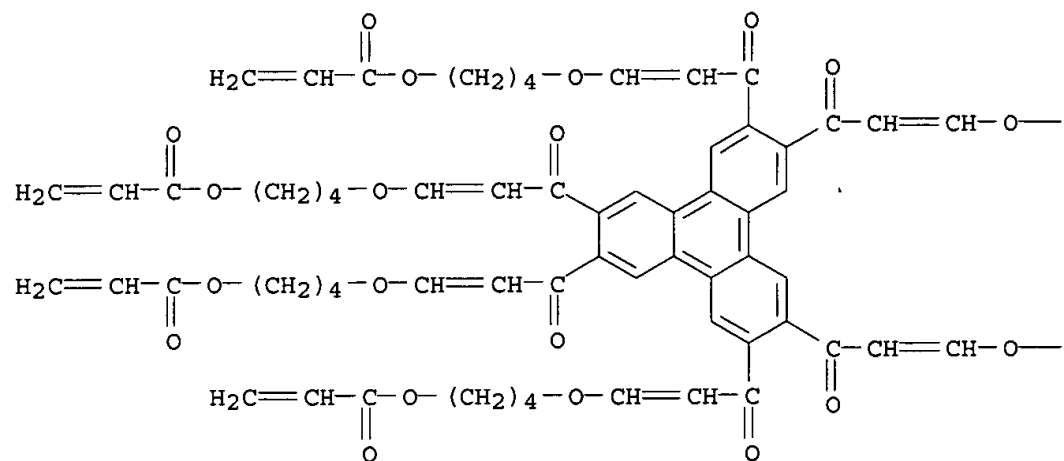
CN 2-Propenoic acid, 1,3,5-triazine-2,4,6-triyltris[imino-1,3,6-naphthalenetriylbis(sulfonylimino-8,1-octanediyl)] ester, polymer with 2,3,6,7,10,11-triphenylenehexaylhexakis[(3-oxo-1-propene-3,1-diyl)oxy-4,1-butanediyl] hexakis[2-propenoate] (9CI) (CA INDEX NAME)

CM 1

CRN 416874-99-2

CMF C78 H84 O24

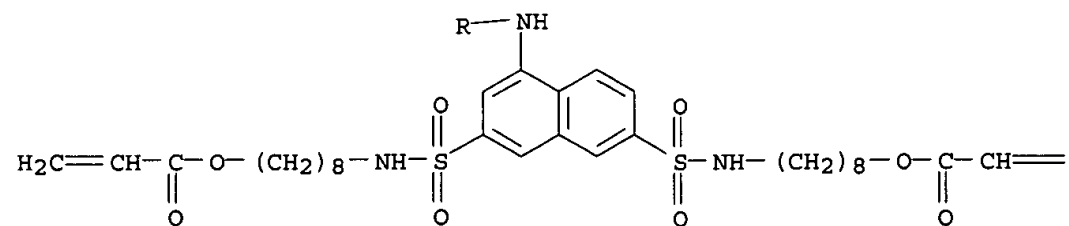
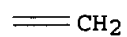
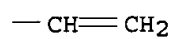
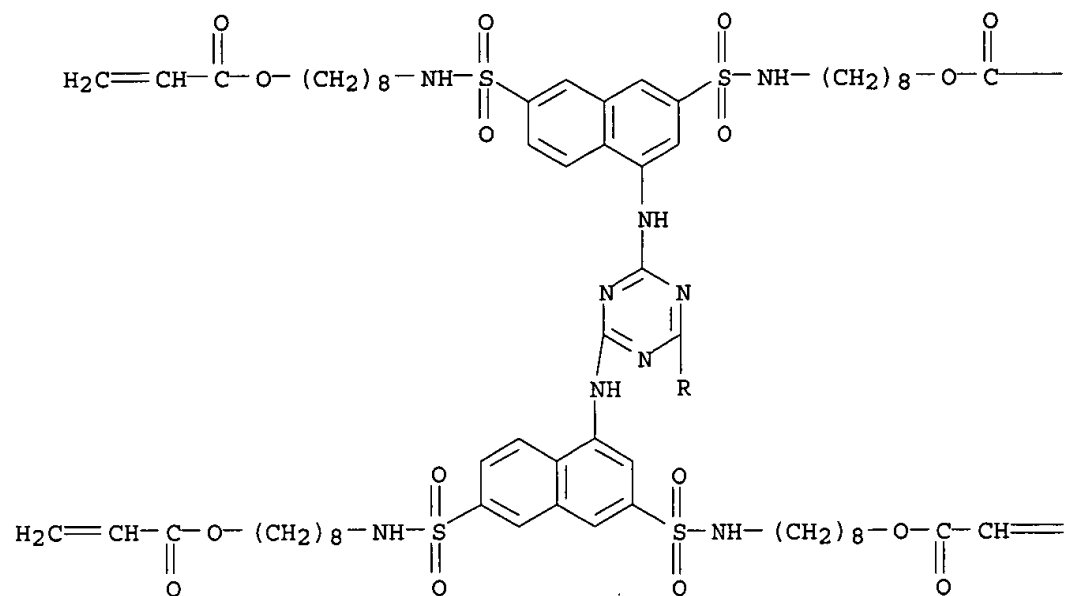




CM 2

CRN 229615-45-6

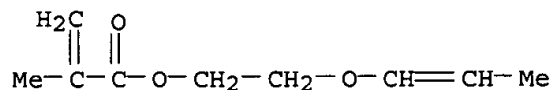
CMF C99 H138 N12 O24 S6



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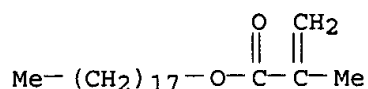
RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1998:793424 CAPLUS  
DN 130:139701  
TI Preparation of Tailor-Made Multifunctional Propenyl Ethers by Radical Copolymerization of 2-(1-Propenyl)oxyethyl Methacrylate  
AU Vansteenkiste, S.; Matthijs, G.; Schacht, E.; De Schrijver, F. C.; Van Damme, M.; Vermeersch, J.  
CS Polymer Materials Research Group Department of Organic Chemistry Faculty of Science, University of Gent, Ghent, B-9000, Belg.  
SO Macromolecules (1999), 32(1), 55-59  
CODEN: MAMOBX; ISSN: 0024-9297  
PB American Chemical Society  
DT Journal  
LA English  
AB Multifunctional amphiphilic polymers with pendant vinyl ethers were prep'd. using a method that combines radical polymn. and fast cationically crosslinking. A bifunctional monomer, 2-(1-propenyl)oxyethyl methacrylate, that undergoes radical polymn. and cationic crosslinking, was used. The phys. characteristics of copolymers were controlled by the selection of comonomers. The crosslinking process was monitored as a function of temp. and concn. of the acid-generating species using FTIR spectroscopy and crosslinking kinetics parameters were detd. The onset for cationic polymn. was detd. using DSC methods. 9-Fluorenylideneimino-p-toluenesulfonate and diphenyliodonium triflate were used as thermally initiating crosslinking agents.  
IT 220008-94-6P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of vinyl ether-contg. polymers by radical co-polymn./thermal crosslinking of (propenyl)oxyethyl methacrylate)  
RN 220008-94-6 CAPLUS  
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with octadecyl 2-methyl-2-propenoate and 2-(1-propenyloxy)ethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)  
CM 1  
CRN 220008-93-5  
CMF C9 H14 O3



CM 2  
CRN 32360-05-7

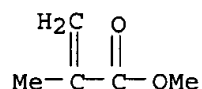
CMF C22 H42 O2



CM 3

CRN 80-62-6

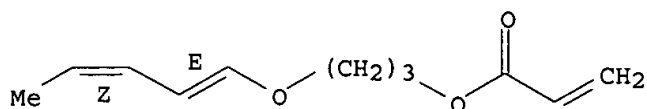
CMF C5 H8 O2



RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

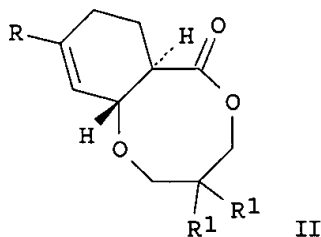
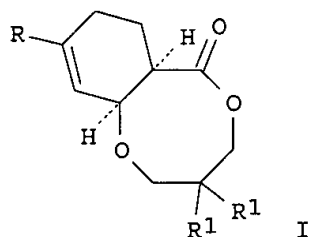
L4 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1998:117691 CAPLUS  
DN 128:192636  
TI Intramolecular Diels-Alder reaction of functionalized trienes: synthesis of medium-ring lactones  
AU Deagostino, Annamaria; Maddaluno, Jacques; Mella, Mariella; Prandi, Cristina; Venturello, Paolo  
CS Corso Massimo D'Azeglio, Dipartimento di Chimica Generale ed Organica Applicata, 'Universita, Turin, 48-I 10125, Italy  
SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1998), (5), 881-888  
CODEN: JCPRB4; ISSN: 0300-922X  
PB Royal Society of Chemistry  
DT Journal  
LA English  
OS CASREACT 128:192636  
AB A simple preparative procedure has been developed for trienic systems, starting from cyclic .alpha.,.beta.-unsatd. acetals derived from crotonaldehyde and (E)-pent-2-enal. The reaction is initiated by a regioselective metalation at the .gamma. site of the unsatd. system that immediately induces 1,4-eliminative ring fission, and stereoselectively affords hydroxy-functionalized E-1,3-dienes. The esterification of those hydroxy dienes with acryloyl chloride gives activated trienes, suitable for intramol. Diels-Alder reaction that yields medium-ring lactones. This method is relatively versatile with respect to the length and the substitution of the tether between the diene and the dienophile. The presence of addnl. stereogenic centers in the tether induces interesting selectivities during the cycloaddn. step that are reported and discussed.  
IT 203739-50-8P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(prepn. of medium-ring lactones by intramol. Diels-Alder reaction of functionalized trienes)  
RN 203739-50-8 CAPLUS  
CN 2-Propenoic acid, 3-(1,3-pentadienyloxy)propyl ester, (E,Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



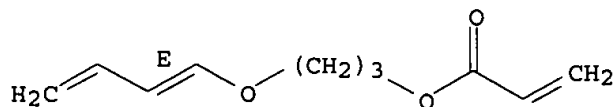
RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1996:590412 CAPLUS  
DN 125:247789  
TI Synthesis of Functionalized Trienes and Regioselective Formation of  
Medium-Ring Lactones through Intramolecular Diels-Alder Reaction  
AU Deagostino, Annamaria; Maddaluno, Jacques; Prandi, Cristina; Venturello,  
Paolo  
CS Dipartimento di Chimica Generale ed Organica Applicata, Universita di  
Torino, Turin, I 10125, Italy  
SO Journal of Organic Chemistry (1996), 61(21), 7597-7599  
CODEN: JOCEAH; ISSN: 0022-3263  
PB American Chemical Society  
DT Journal  
LA English  
OS CASREACT 125:247789  
GI



AB Intramol. Diels-Alder reaction of (E)-CH<sub>2</sub>:CRCH:CHOCH<sub>2</sub>CR<sub>1</sub>CH<sub>2</sub>OCOCH:CH<sub>2</sub> (R =  
R<sub>1</sub> = H, Me; R = H, R<sub>1</sub> = Me) gave fused lactones I and II regioselectively.  
The trans isomer is the thermodyn. favored isomer.  
IT 182001-97-4P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(regioselective prepn of medium-ring lactones through intramol.  
Diels-Alder reaction of functionalized trienes)  
RN 182001-97-4 CAPLUS  
CN 2-Propenoic acid, 3-(1,3-butadienyloxy)propyl ester, (E)- (9CI) (CA INDEX  
NAME)

Double bond geometry as shown.



L4 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1996:534872 CAPLUS  
DN 125:180932  
TI Polymers for use in optical devices

IN Holmes, Andrew Bruce; Li, Xiao-Chang; Moratti, Stephen Carl; Murray,  
Kenneth Andrew; Friend, Richard Henry  
PA Cambridge Display Technology Ltd., UK  
SO PCT Int. Appl., 73 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9620253	A1	19960704	WO 1995-GB3043	19951228
	W: JP, KR, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 800563	A1	19971015	EP 1995-941813	19951228
	EP 800563	B1	20000712		
	R: DE, GB, NL				
	JP 10511718	T2	19981110	JP 1996-520312	19951228
	EP 1291406	A1	20030312	EP 2002-80081	19951228
	R: DE, GB, NL				
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	EP 1006169	A1	20000607	EP 1999-124732	19991213
	R: DE, GB, NL				
	US 2003008991	A1	20030109	US 2000-561831	20000428
	US 6559256	B2	20030506		
	US 2003166810	A1	20030904	US 2002-313252	20021206
PRAI	GB 1994-26288	A	19941228		
	GB 1995-10155	A	19950519		
	JP 1996-520312	A3	19951228		
	WO 1995-GB3043	W	19951228		
	EP 1995-941813	A3	19960704		
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	US 2000-561847	A3	20000428		

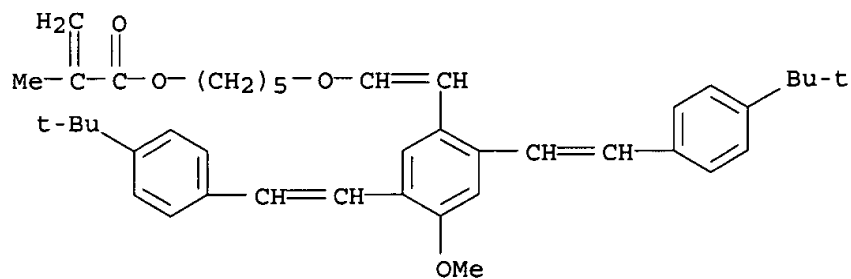
AB Semiconductive polymers capable of luminescence in an optical device are described which comprise a luminescent film-forming solvent-processible polymer which is crosslinked so as to increase its molar mass and to resist solvent dissoln., the crosslinking being such that the polymer retains its semiconductive and luminescent properties. Polymers capable of charge transport in an optical device are also described which comprise a film-forming polymer which is solvent processible or formed from a processible precursor polymer and which includes a charge transport segment in the polymer main chain or covalently linked thereto in a charge transport side chain. Optical devices (e.g., electroluminescent devices) employing the polymers are described. Processes for the prodn. of the semiconductive polymers entail providing a luminescent film-forming solvent-processible polymer and crosslinking the solvent processible polymer under conditions so as to increase its molar mass whereby the polymer is made resistant to solvent dissoln. and retains its semiconductive and luminescent properties.

IT **180598-95-2P**  
RL: DEV (Device component use); IMF (Industrial manufacture); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(crosslinked luminescent and charge transporting polymers for use in optical devices)

RN 180598-95-2 CAPLUS

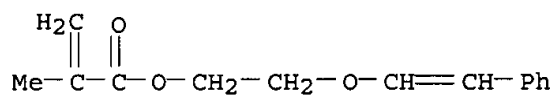
CN 2-Propenoic acid, 2-methyl-, [4-(5-[1,1'-biphenyl]-4-yl-1,3,4-oxadiazol-2-yl)phenyl]methyl ester, polymer with 5-[[2-[2,5-bis[2-[4-(1,1-dimethylethyl)phenyl]ethenyl]-4-methoxyphenyl]ethenyl]oxy]pentyl 2-methyl-2-propenoate and 2-[(2-phenylethenyl)oxy]ethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CRN 180598-94-1  
CMF C42 H52 O4



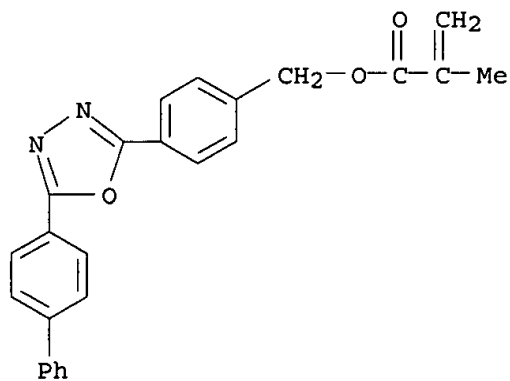
CM 2

CRN 180598-93-0  
CMF C14 H16 O3

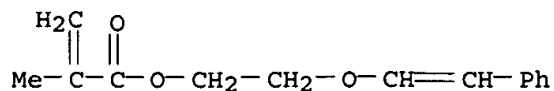


CM 3

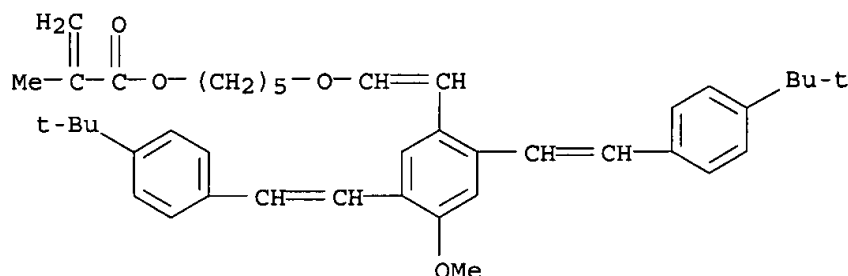
CRN 173740-37-9  
CMF C25 H20 N2 O3



IT 180598-93-0 180598-94-1  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(crosslinked luminescent and charge transporting polymers for use in  
optical devices)  
RN 180598-93-0 CAPLUS  
CN 2-Propenoic acid, 2-methyl-, 2-[(2-phenylethenyl)oxy]ethyl ester (9CI)  
(CA INDEX NAME)

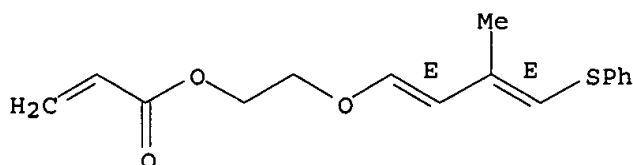


RN 180598-94-1 CAPLUS  
 CN 2-Propenoic acid, 2-methyl-, 5-[[2-[2,5-bis[2-[4-(1,1-dimethylethyl)phenyl]ethenyl]-4-methoxyphenyl]ethenyl]oxy]pentyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1996:440578 CAPLUS  
 DN 125:141895  
 TI Synthesis and Cycloaddition Reactions of 1-(Arylthio)-1,3-dienes. A Combined Experimental and Theoretical Study of Bicyclic Adduct Structures  
 AU Maddaluno, Jacques; Gaonac'h, Odile; Marcual, Albert; Toupet, Loiee; Giessner-Prettre, Claude  
 CS Faculte des Sciences, Universite de Rouen, Mont St. Aignan, 76821, Fr.  
 SO Journal of Organic Chemistry (1996), 61(16), 5290-5306  
 CODEN: JOCEAH; ISSN: 0022-3263  
 PB American Chemical Society  
 DT Journal  
 LA English  
 AB A method giving simple access to various 1-(phenylthio)-4-substituted-1,3-dienes was described. The influence of the different functionalizations introduced on the dienic systems was tested in a set of classical [4+2] cycloaddn. reactions. Both the endo/exo and regio selectivities were investigated. While the endo compd. was, as expected, the only or major isomer in all cases, the regio competition between sulfur and oxygen was in favor of the oxygen substituent in the case studied here, in contrast to related works. For one type of adduct, X-ray crystallog. anal. and NMR spectroscopy were used in conjunction with ab initio and semiempirical AM1 calcns. to det. the structure and conformations of products as well as the energetic pathway from a primary concave endo cycloadduct to a rearranged bicyclic structure. The theor. results fully support the occurrence of a photochem. [1,3] sigmatropic shift of the thiophenyl group.  
 IT 179670-31-6P 179914-28-4P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (prepn. and cycloaddn. of (arylthio)dienes and theor. study of bicyclic adducts)  
 RN 179670-31-6 CAPLUS  
 CN 2-Propenoic acid, 2-[[[3-methyl-4-(phenylthio)-1,3-butadienyl]oxy]ethyl ester, (E,E)- (9CI) (CA INDEX NAME)

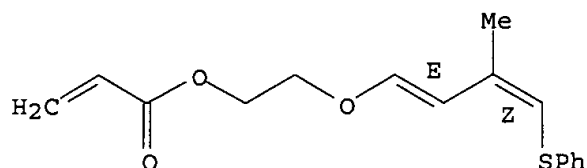
Double bond geometry as shown.





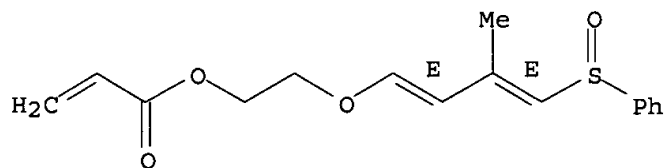
RN 179914-28-4 CAPLUS  
 CN 2-Propenoic acid, 2-[[3-methyl-4-(phenylthio)-1,3-butadienyl]oxy]ethyl ester, (Z,E) - (9CI) (CA INDEX NAME)

Double bond geometry as shown.



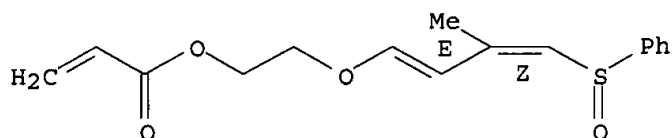
IT 179670-35-0P 179914-29-5P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. and cycloaddn. of (arylthio)dienes and theor. study of bicyclic adducts)  
 RN 179670-35-0 CAPLUS  
 CN 2-Propenoic acid, 2-[[3-methyl-4-(phenylsulfinyl)-1,3-butadienyl]oxy]ethyl ester, (E,E) - (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 179914-29-5 CAPLUS  
 CN 2-Propenoic acid, 2-[[3-methyl-4-(phenylsulfinyl)-1,3-butadienyl]oxy]ethyl ester, (Z,E) - (9CI) (CA INDEX NAME)

Double bond geometry as shown.



=>

=> d his

(FILE 'HOME' ENTERED AT 14:39:14 ON 18 DEC 2003)

FILE 'REGISTRY' ENTERED AT 14:39:23 ON 18 DEC 2003

L1 STRUCTURE UPLOADED  
L2 0 S L1 SSS  
L3 18 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 14:41:48 ON 18 DEC 2003

L4 8 S L3  
L5 0 S L4 AND INHIBI?  
L6 STRUCTURE UPLOADED

FILE 'REGISTRY' ENTERED AT 14:51:28 ON 18 DEC 2003

L7 0 S L6  
L8 27 S L6 SSS FULL

FILE 'CAPLUS' ENTERED AT 14:51:54 ON 18 DEC 2003

L9 STRUCTURE UPLOADED  
S L9

FILE 'REGISTRY' ENTERED AT 14:54:19 ON 18 DEC 2003

L10 0 S L9 SSS

FILE 'CAPLUS' ENTERED AT 14:54:20 ON 18 DEC 2003

L11 0 S L10 SSS

FILE 'REGISTRY' ENTERED AT 14:54:30 ON 18 DEC 2003

L12 STRUCTURE UPLOADED  
L13 0 S L12 SSS  
L14 0 S L12 SSS FULL  
L15 STRUCTURE UPLOADED  
L16 0 S L15 SSS  
L17 0 S L15 SSS FULL  
L18 0 F ILE CAPLUS

FILE 'CAPLUS' ENTERED AT 14:59:06 ON 18 DEC 2003

L19 13 S L8

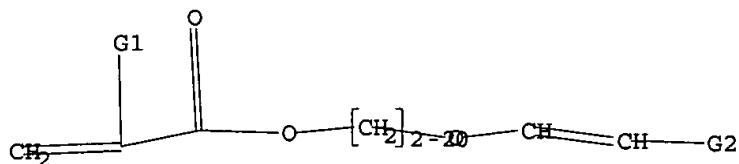
=> s l4 or l19

L20 13 L4 OR L19

=> d l1

L1 HAS NO ANSWERS

L1 STR



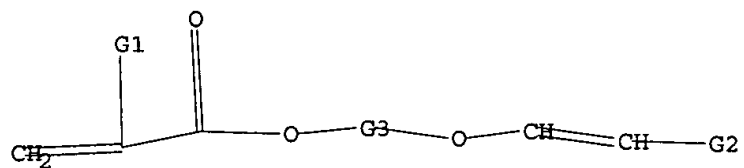
G1 H, Me

G2 Cb, Ak

Structure attributes must be viewed using STN Express query preparation.

=> d l6

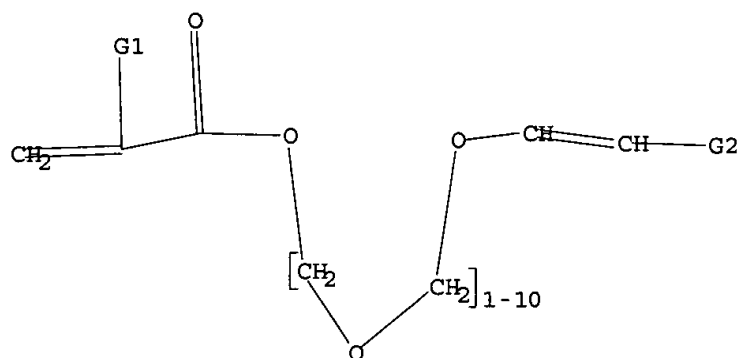
L6 HAS NO ANSWERS  
L6 STR



G1 H, Me  
G2 Cb, Ak  
G3 Cb, Cy, Ak

Structure attributes must be viewed using STN Express query preparation.

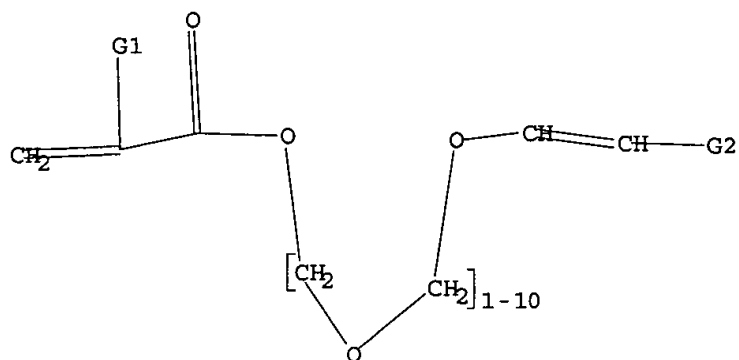
=> d 19  
L9 HAS NO ANSWERS  
L9 STR



G1 H, Me  
G2 Cb, Ak  
G3 Cb, Cy, Ak

Structure attributes must be viewed using STN Express query preparation.

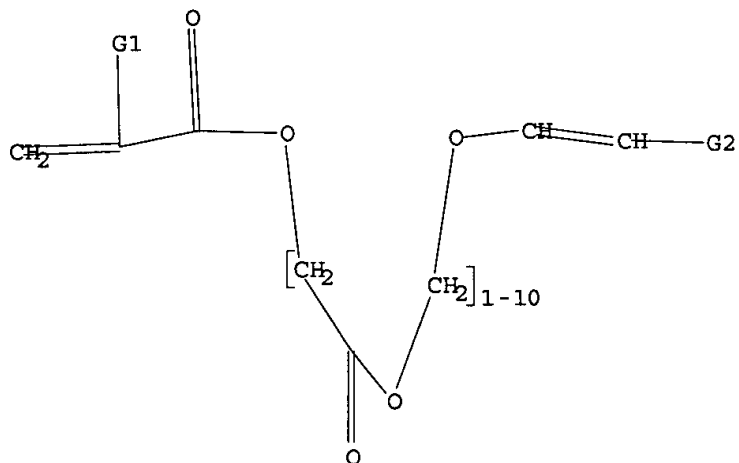
=> d 112  
L12 HAS NO ANSWERS  
L12 STR



G1 H, Me  
G2 Cb, Ak  
G3 Cb, Cy, Ak

Structure attributes must be viewed using STN Express query preparation.

=> d 115  
L15 HAS NO ANSWERS  
L15 STR



G1 H, Me  
G2 Cb, Ak  
G3 Cb, Cy, Ak

Structure attributes must be viewed using STN Express query preparation.

=> d bib abs hitstr 1-13

L20 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2003:628290 CAPLUS  
DN 139:157469  
TI Alkali-resistant antireflective films, their manufacture, and display devices therewith  
IN Obayashi, Tatsuhiko; Hosokawa, Takashi; Nakamura, Kenichi; Okawa, Atsuhiro  
PA Fuji Photo Film Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 17 pp.

CODEN: JKXXAF

DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003227901	A2	20030815	JP 2002-26092	20020201
	US 2003175502	A1	20030918	US 2003-354961	20030131

PRAI JP 2002-26092 A 20020201

AB The films, suited for mass prodn. and having superior strength of coating layers, are manufd. by application of coatings contg. crosslinkable polymer-dispersed 1-200-nm-diam. (av.) inorg. microparticles on substrates and their curing to form high-n layers of n 1.65-2.40. The films have low-n layers of n 1.20-1.55. The films show superior scratch and wear resistance even after sapon.

IT 572902-73-9P

RL: DEV (Device component use); IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (high-n layers; mass prodn. of sapon.-resistant antireflective films having ultrahigh-n layers of high transparency for displays)

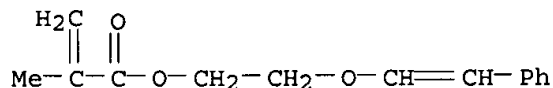
RN 572902-73-9 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[(2-phenylethenyl)oxy]ethyl ester, polymer with 2-(dimethylamino)ethyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 180598-93-0

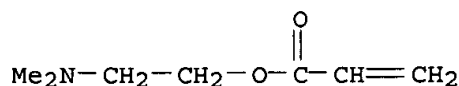
CMF C14 H16 O3



CM 2

CRN 2439-35-2

CMF C7 H13 N O2



L20 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2003:148006 CAPLUS

DN 138:189008

TI Curable films and electric insulators with good thermal shock resistance and dielectric properties

IN Saito, Takao; Kon, Shigeto; Satake, Shuichi; Inoue, Masahito

PA Sanyo Chemical Industries, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 31 pp.

CODEN: JKXXAF

DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003055481	A2	20030226	JP 2001-242943	20010809
PRAI	JP 2001-242943		20010809		

AB Title films comprise a curable resin (A) with Tg before curing 50-150.degree., Mw 10,000-1,00,000, and .gtoreq.2 crosslinkable functional groups selected from epoxy, (meth)acryloyl, alkenylamino, and alkenyloxy groups, where the dielec. const. of A after curing is .ltoreq.3.2. Thus, 200 parts glycidyl methacrylate and 200 parts styrene were polymd. in the presence of 170 parts JSR-TR 2250 and 1.5 parts azobisisobutyronitrile to give a 40%-solids JSR-TR 2250-dispersed glycidyl methacrylate-styrene copolymer soln., 175 parts of which was mixed with 30 parts resorcinol diglycidyl ether and 6 parts 2-ethyl-4-methylimidazole, applied on a PET release film, and dried to give a curable film. The film was thermally cured to give a insulator showing good thermal shock resistance, dielec. const. (1 GHz) 2.9, dielec. dissipation factor 0.009, vol. resistivity 5.1 .times. 10<sup>16</sup> .OMEGA./cm, tensile strength 16,000 kg/mm<sup>2</sup>, and thermal expansion coeff. 45 ppm/.degree..

IT 498555-32-1P

RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(blend with TR 2250, curable or cured; prepn. of curable films for elec. insulators)

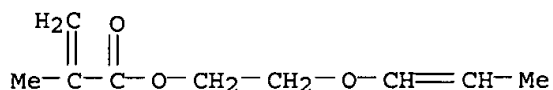
RN 498555-32-1 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(1-propenyloxy)ethyl ester, polymer with ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 220008-93-5

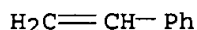
CMF C9 H14 O3



CM 2

CRN 100-42-5

CMF C8 H8



L20 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2002:943541 CAPLUS

DN 138:337583

TI Conjugated elimination versus [1,2]-Wittig rearrangement of unsaturated diox(ol)anes

AU Lemiegre, Loic; Regnier, Thomas; Combret, Jean-Claude; Maddaluno, Jacques

CS IRCOF, Laboratoire des Fonctions Azotees & Oxygenees Complexes, Universite de Rouen, Mont St Aignan, 76821, Fr.

SO Tetrahedron Letters (2002), Volume Date 2003, 44(2), 373-377

CODEN: TELEAY; ISSN: 0040-4039

PB Elsevier Science Ltd.

DT Journal

LA English

AB A set of unsatd. dioxanes and dioxolanes was prepd. in three steps from acetoxy-1-isoprene. When reacted with two equiv. of t-BuLi in THF, these compds. provided, under various conditions, a mixt. of two types of 1,3-dienes. The first one, derived from a conjugated elimination reaction resulting in the heterocycles opening, is relatively unstable but could be

trapped as an acrylate. The second one resulted probably from a [1,2]-Wittig rearrangement. The competition between these two reactions was obsd. for both dioxanes and dioxolanes (but not for acyclic ketals) and is the object of a strong temp. effect, the Wittig rearrangement being favored over the elimination at room temp. A difference between kinetic and thermodyn. deprotonation sites probably is at the origin of this competition on the base of both exptl. and theor. results.

IT 516521-63-4P

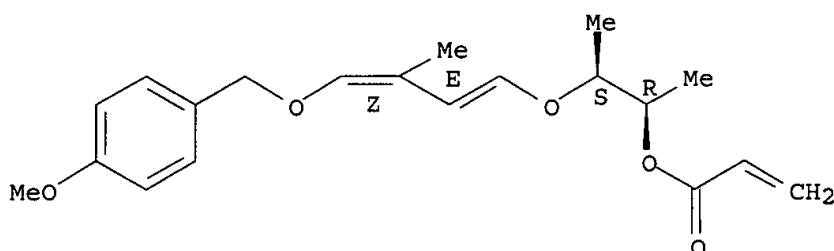
RL: SPN (Synthetic preparation); PREP (Preparation)

(conjugated elimination vs. [1,2]-Wittig rearrangement of unsatd. diox(ol)anes)

RN 516521-63-4 CAPLUS

CN 2-Propenoic acid, (1R,2S)-2-[[[(1E,3Z)-4-[(4-methoxyphenyl)methoxy]-3-methyl-1,3-butadienyl]oxy]-1-methylpropyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.  
Double bond geometry as shown.



RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2002:327973 CAPLUS

DN 136:348396

TI Optical compensatory sheet and liquid crystal display

IN Yokoyama, Shigeki; Kawata, Ken; Nishikawa, Hideyuki; Matsuoka, Koshin; Aminaka, Eiichiro; Ito, Yoji

PA Fuji Photo Film Co., Ltd., Japan

SO U.S., 46 pp., Cont.-in-part of U.S. Ser. No. 226,172, abandoned.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6380996	B1	20020430	US 2000-616365	20000713
	JP 2001027706	A2	20010130	JP 1999-199442	19990713
	JP 2000304931	A2	20001102	JP 2000-6772	20000114
PRAI	JP 1998-1931	A	19980107		
	JP 1998-114168	A	19980409		
	US 1999-226172	B2	19990107		
	JP 1999-199442	A	19990713		
	JP 2000-6772	A	20000114		
	JP 1999-38893	A	19990217		

AB The present invention relates to an optical compensatory sheet comprising an optically anisotropic layer formed of discotic liq. crystal mols. provided on a transparent substrate. The liq. crystal mols. are horizontally aligned in the optically anisotropic layer. An av. inclined angle between discotic planes of the discotic liq. crystal mols. and a surface of the transparent substrate is < 5.degree.. The discotic liq. crystal mols. are fixed in the optically anisotropic layer while keeping the horizontal alignment. A wide viewing angle and a rapid response of a

liq. crystal display of a vertical alignment mode or a bend alignment mode are improved by using optical compensatory sheet of the present invention.

IT 416875-00-8P 416875-44-0P 416875-46-2P

416875-48-4P

RL: DEV (Device component use); PEP (Physical, engineering or chemical process); PNU (Preparation, unclassified); PRP (Properties); PREP (Preparation); PROC (Process); USES (Uses)

(liq. crystal display optical compensatory sheet contg. polyimd.

discotic liq. crystals and melamine compd.)

RN 416875-00-8 CAPLUS

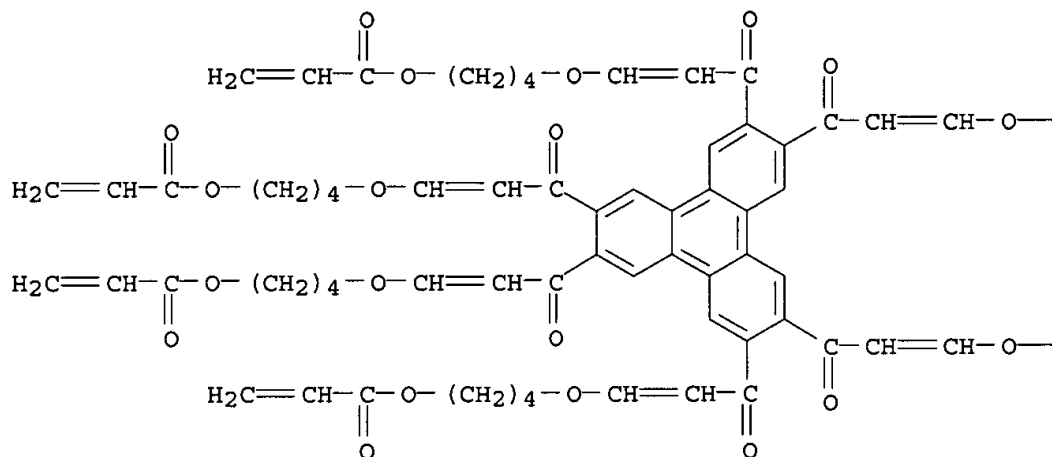
CN 2-Propenoic acid, 2,3,6,7,10,11-triphenylenehexaylhexas[[(3-oxo-1-propene-3,1-diyl)oxy-4,1-butanediyl] ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

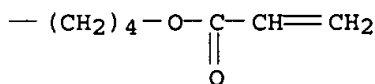
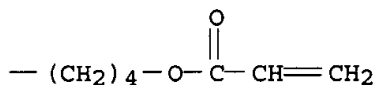
CRN 416874-99-2

CMF C78 H84 O24

PAGE 1-A



PAGE 1-B



RN 416875-44-0 CAPLUS

CN Benzoic acid, 4,4',4''-(1,3,5-triazine-2,4,6-triyltriimino)tris-, tris[12-[(2-methyl-1-oxo-2-propenyl)oxy]dodecyl] ester, polymer with 2,3,6,7,10,11-triphenylenehexaylhexas[[(3-oxo-1-propene-3,1-diyl)oxy-4,1-



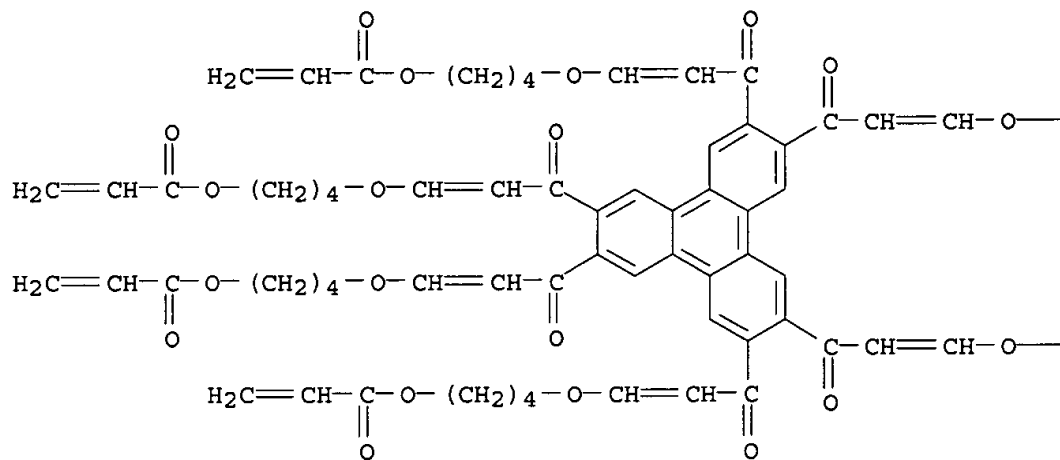
butanediyl] hexakis[2-propenoate] (9CI) (CA INDEX NAME)

CM 1

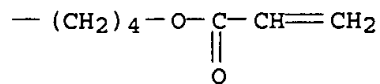
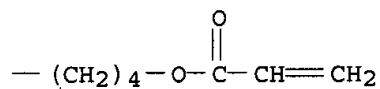
CRN 416874-99-2

CMF C78 H84 O24

PAGE 1-A



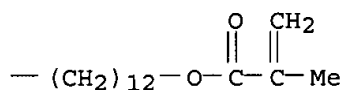
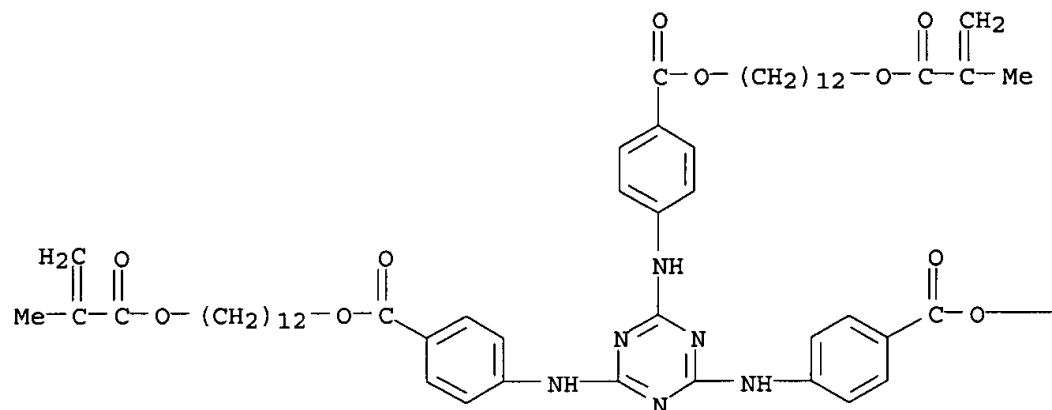
PAGE 1-B



CM 2

CRN 229615-42-3

CMF C72 H102 N6 O12



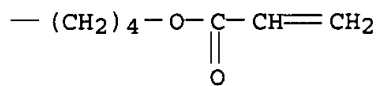
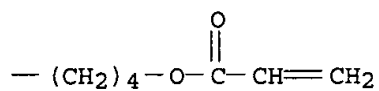
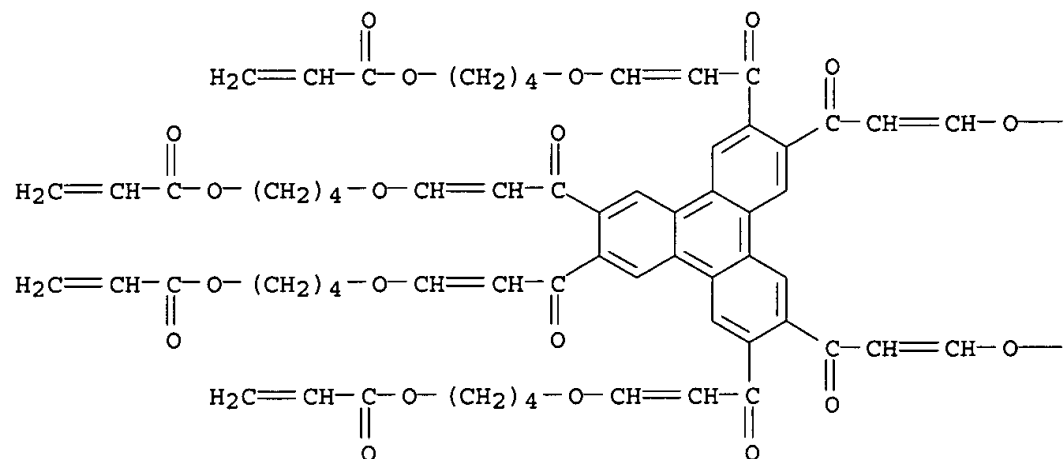
RN 416875-46-2 CAPLUS

CN 2-Propenoic acid, 2,3,6,7,10,11-triphenylenehexaylhexakis[(3-oxo-1-propene-3,1-diyl)oxy-4,1-butanediyl] ester, polymer with 1,3,5-triazine-2,4,6-triyltris[imino[3-[(phenylamino)sulfonyl]-6,1-naphthalenediyl]oxy-12,1-dodecanediyl] tri-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 416874-99-2

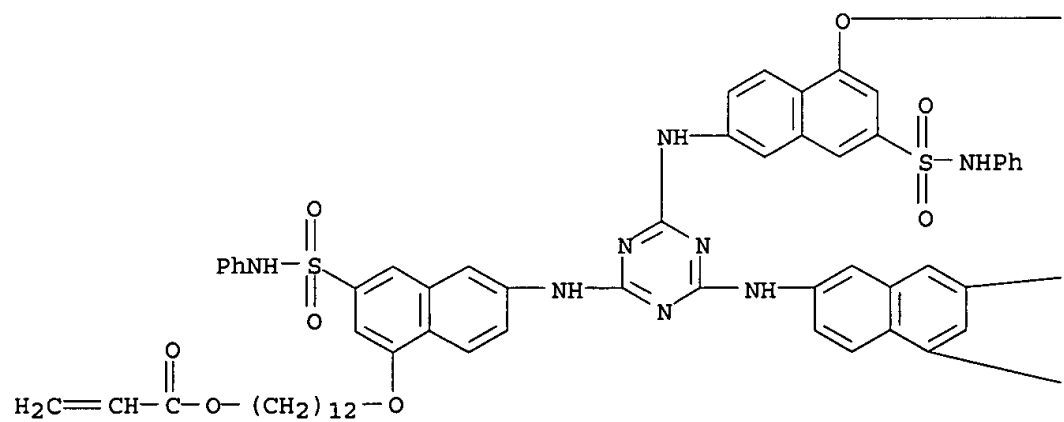
CMF C78 H84 O24

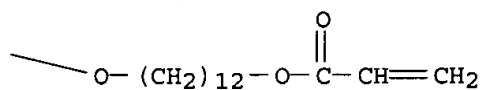
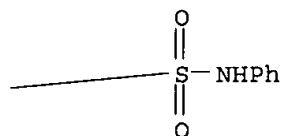
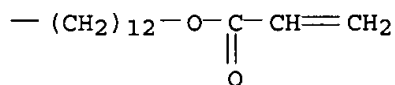
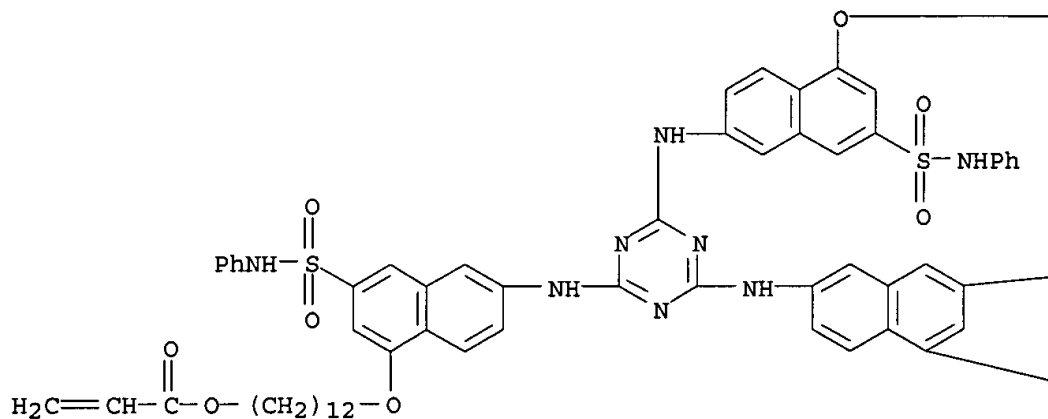


CM 2

CRN 229615-44-5

CMF C96 H117 N9 O15 S3





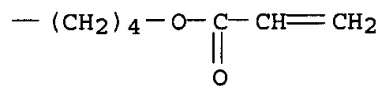
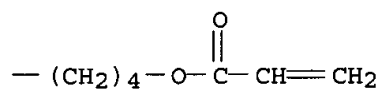
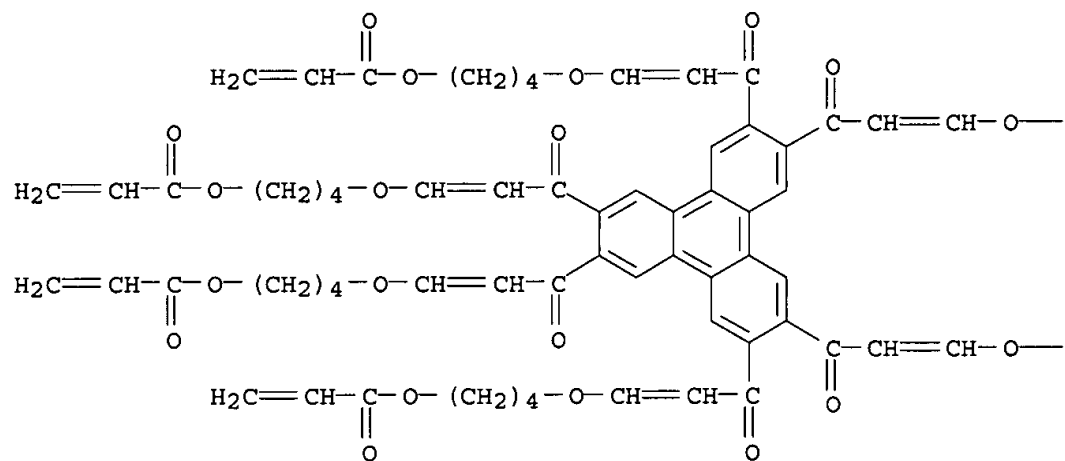
RN 416875-48-4 CAPLUS

CN 2-Propenoic acid, 1,3,5-triazine-2,4,6-triyltris[imino-1,3,6-naphthalenetriylbis(sulfonylimino-8,1-octanediyl)] ester, polymer with 2,3,6,7,10,11-triphenylenehexaylhexas[[(3-oxo-1-propene-3,1-diyl)oxy-4,1-butanediyl] hexakis[2-propenoate] (9CI) (CA INDEX NAME)

CM 1

CRN 416874-99-2

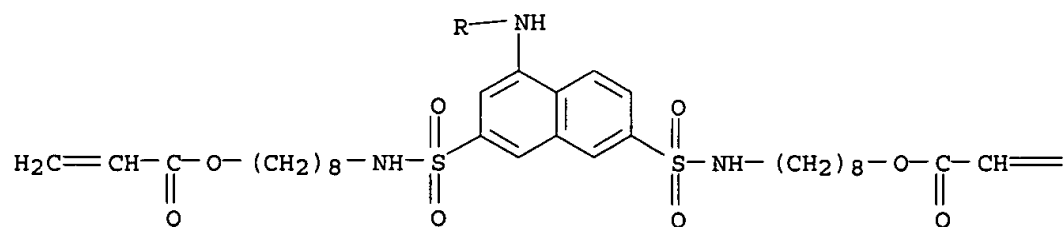
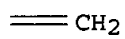
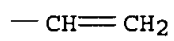
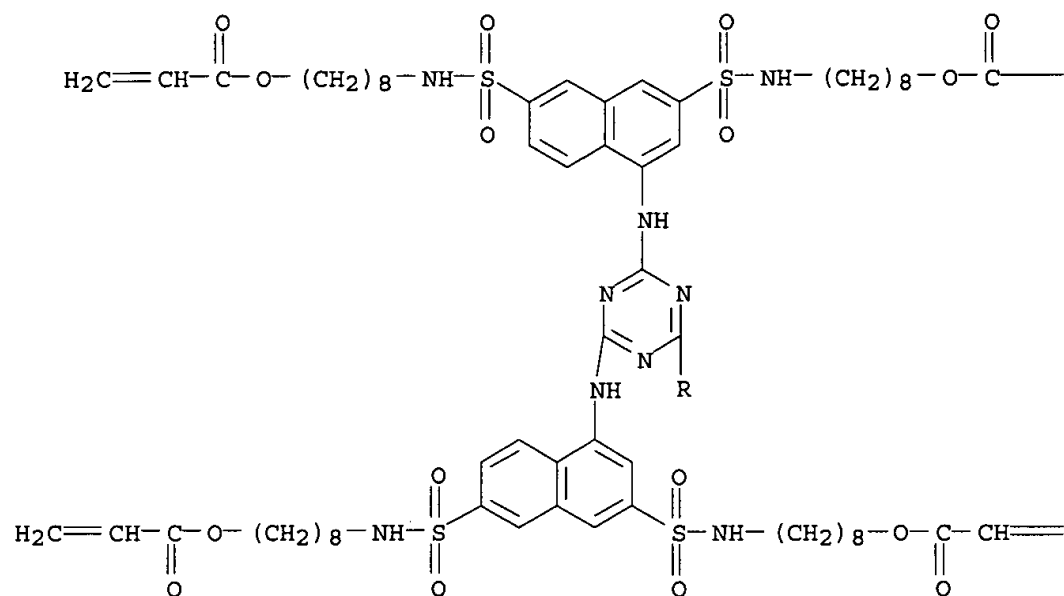
CMF C78 H84 O24



CM 2

CRN 229615-45-6

CMF C99 H138 N12 O24 S6



=CH<sub>2</sub>

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1999:603499 CAPLUS

DN 131:229152

TI Phosphorus-containing polymerizable compounds, their manufacture, and photocurable compositions containing them

IN Nishikubo, Tadaomi; Kameyama, Atsushi; Shitakawa, Tsutomu

PA JSR Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11255832	A2	19990921	JP 1998-62544	19980313
PRAI	JP 1998-62544		19980313		

AB Polymerizable compds. R<sub>1</sub>P(O)[OCH(CH<sub>2</sub>OCH:CHR<sub>2</sub>)CH<sub>2</sub>X]<sub>2</sub> (I; R<sub>1</sub> = Ph, PhO, Pr; R<sub>2</sub> = C1-4 alkyl; X = halo, chlorophenoxy, PhO, nitrophenoxy) are manufd. by addn. reaction of 1-alkenyl glycidyl ethers with phosphonic acid esters. Also claimed are polymerizable compds. represented by [P(O)(R<sub>1</sub>)OCH(CH<sub>2</sub>OCH:CHR<sub>2</sub>)CH<sub>2</sub>OCOR<sub>3</sub>CO<sub>2</sub>CH<sub>2</sub>CH(CH<sub>2</sub>OCH:CHR<sub>2</sub>)O]<sub>n</sub> (R<sub>3</sub> = phenylene, butylene, CH:CH, CH:CHCH:CH; n .gtoreq. 1) or R<sub>1</sub>P(O)[OCH(CH<sub>2</sub>OCH:CHR<sub>2</sub>)CH<sub>2</sub>OCOC(Y):CH<sub>2</sub>]<sub>2</sub> (Y = H, Me) and their manuf. by condensation reaction of I with dicarboxylic acids or (meth)acrylic acids, resp. Thus, 10 mmol 1-propenyl glycidyl ether was treated with 5 mmol PhPOCl<sub>2</sub> at 90.degree. for 24 h in PhMe in the presence of Bu<sub>4</sub>NBr to give 82% bis[1-(chloromethyl)-2-(1-propenyloxy)ethyl] phenylphosphonate, which was mixed with bis[4-(diphenylsulfonio)phenyl] sulfide bis(hexafluorophosphate), applied on a KBr sheet, and irradiated with UV to form a cured film.

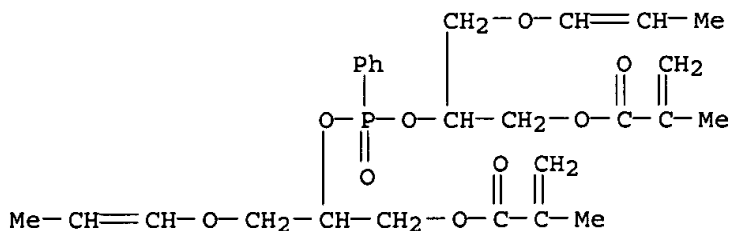
IT 243962-85-8P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(manuf. of UV-curable phosphorus compds.)

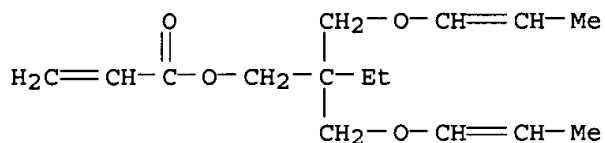
RN 243962-85-8 CAPLUS

CN 2-Propenoic acid, 2-methyl-, (phenylphosphinyldiene)bis[oxy[2-[(2-propenyloxy)methyl]-2,1-ethanediyl]] ester (9CI) (CA INDEX NAME)



L20 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1999:166581 CAPLUS  
 DN 130:210092  
 TI Radiation-curable propenyl ether compounds, uses thereof, and compositions containing them  
 IN Crivello, James  
 PA Research Corporation Technologies, Inc., USA  
 SO PCT Int. Appl., 49 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9910303	A1	19990304	WO 1998-US17110	19980819
	W: CA, JP RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
PRAI	US 1997-918829		19970826		
OS	MARPAT 130:210092				
AB	Disclosed are compds. R2R(OCH:CHCH2R1)n: R is linear, branched or cyclic alkyl contg. 1 to 6 carbon atoms; R1 is -H or -CH3; R2 is -OH, alkoxy contg. 1 to 20 carbon atoms which is optionally substituted with Ph and two consecutive carbon atoms of which are optionally bonded to an oxygen atom to form an epoxy ring, phenoxy, acryloloxy, methacryloloxy, or A-(Het)O-1C(O)O- wherein A is alkyl contg. 1 to 20 carbon atoms, and (Het) is -O- or -NH-; or R2 is -L-X-(L-R-(OCH=CH-CH2R1)n)1-3 wherein X has any of the structures -Ph0-1-CaH2a-Ph0-1-Ph0-1-(cyclo-C5-20-alkyl)-Ph0 -1-, -Ph-Ph-, or -Ph-, wherein Ph is phenylene and a is 1 to 20; -CfH2fC(O)CgH2g -CfH2fOCgH2g-, -CfH2fC(O)OCgH2g-, -CfH2fPhCgH2g-, or -CfH2fC(O)NHCgH2g-, wherein f and g are each 1 to 12; and each L is independently a chem. bond or -C(O)O-, -OC(O)O-, -O-, or -NHC(O)O-, provided that each R is bonded to an oxygen atom of L; or X is -C(O)-, each L is a chem. bond, and i is 1. Also disclosed are methods and compns. useful in the radiation-induced polymn. of such compds.				
IT	179117-67-0P RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent) (radiation-curable propenyl ether compds., uses thereof, and compns. contg. them)				
RN	179117-67-0 CAPLUS				
CN	2-Propenoic acid, 2,2-bis[(1-propenyloxy)methyl]butyl ester (9CI) (CA INDEX NAME)				

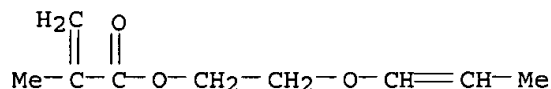


RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

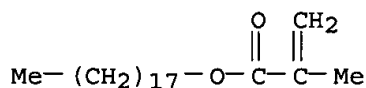
L20 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1998:793424 CAPLUS  
 DN 130:139701  
 TI Preparation of Tailor-Made Multifunctional Propenyl Ethers by Radical Copolymerization of 2-(1-Propenyl)oxyethyl Methacrylate  
 AU Vansteenkiste, S.; Matthijs, G.; Schacht, E.; De Schrijver, F. C.; Van Damme, M.; Vermeersch, J.  
 CS Polymer Materials Research Group Department of Organic Chemistry Faculty



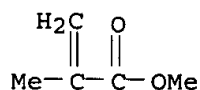
of Science, University of Gent, Ghent, B-9000, Belg.  
 SO Macromolecules (1999), 32(1), 55-59  
 CODEN: MAMOBX; ISSN: 0024-9297  
 PB American Chemical Society  
 DT Journal  
 LA English  
 AB Multifunctional amphiphilic polymers with pendant vinyl ethers were prepd. using a method that combines radical polymn. and fast cationically crosslinking. A bifunctional monomer, 2-(1-propenyl)oxyethyl methacrylate, that undergoes radical polymn. and cationic crosslinking, was used. The phys. characteristics of copolymers were controlled by the selection of comonomers. The crosslinking process was monitored as a function of temp. and concn. of the acid-generating species using FTIR spectroscopy and crosslinking kinetics parameters were detd. The onset for cationic polymn. was detd. using DSC methods. 9-Fluorenylideneimino-p-toluenesulfonate and diphenyliodonium triflate were used as thermally initiating crosslinking agents.  
 IT **220008-94-6P**  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of vinyl ether-contg. polymers by radical co-polymn./thermal crosslinking of (propenyl)oxyethyl methacrylate)  
 RN 220008-94-6 CAPLUS  
 CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with octadecyl 2-methyl-2-propenoate and 2-(1-propenyloxy)ethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 220008-93-5  
 CMF C9 H14 O3



CM 2  
 CRN 32360-05-7  
 CMF C22 H42 O2



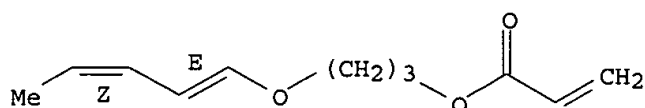
CM 3  
 CRN 80-62-6  
 CMF C5 H8 O2



RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

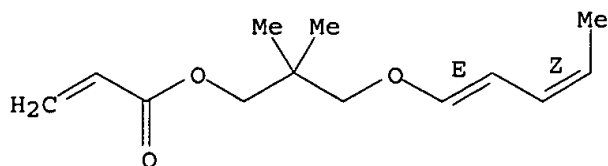
L20 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1998:117691 CAPLUS  
 DN 128:192636  
 TI Intramolecular Diels-Alder reaction of functionalized trienes: synthesis of medium-ring lactones  
 AU Deagostino, Annamaria; Maddaluno, Jacques; Mella, Mariella; Prandi, Cristina; Venturello, Paolo  
 CS Corso Massimo D'Azeglio, Dipartimento di Chimica Generale ed Organica Applicata, 'Universita, Turin, 48-I 10125, Italy  
 SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1998), (5), 881-888  
 CODEN: JCPRB4; ISSN: 0300-922X  
 PB Royal Society of Chemistry  
 DT Journal  
 LA English  
 OS CASREACT 128:192636  
 AB A simple preparative procedure has been developed for trienic systems, starting from cyclic .alpha.,.beta.-unsatd. acetals derived from crotonaldehyde and (E)-pent-2-enal. The reaction is initiated by a regioselective metalation at the .gamma. site of the unsatd. system that immediately induces 1,4-eliminative ring fission, and stereoselectively affords hydroxy-functionalized E-1,3-dienes. The esterification of those hydroxy dienes with acryloyl chloride gives activated trienes, suitable for intramol. Diels-Alder reaction that yields medium-ring lactones. This method is relatively versatile with respect to the length and the substitution of the tether between the diene and the dienophile. The presence of addnl. stereogenic centers in the tether induces interesting selectivities during the cycloaddn. step that are reported and discussed.  
 IT 203739-50-8P 203739-51-9P 203739-52-0P  
 203739-54-2P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (prepn. of medium-ring lactones by intramol. Diels-Alder reaction of functionalized trienes)  
 RN 203739-50-8 CAPLUS  
 CN 2-Propenoic acid, 3-(1,3-pentadienyloxy)propyl ester, (E,Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



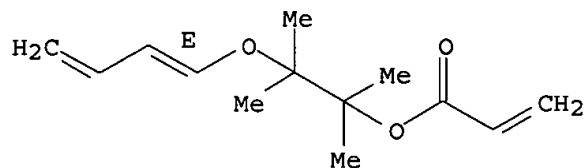
RN 203739-51-9 CAPLUS  
 CN 2-Propenoic acid, 2,2-dimethyl-3-(1,3-pentadienyloxy)propyl ester, (E,Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 203739-52-0 CAPLUS  
 CN 2-Propenoic acid, 2-(1,3-butadienyloxy)-1,1,2-trimethylpropyl ester, (E)- (9CI) (CA INDEX NAME)

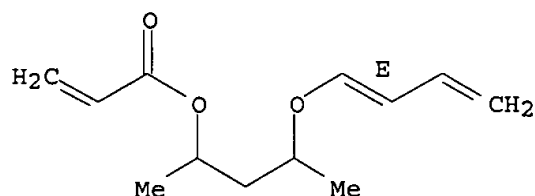
Double bond geometry as shown.



RN 203739-54-2 CAPLUS

CN 2-Propenoic acid, 3-(1,3-butadienyloxy)-1-methylbutyl ester, (E)- (9CI)  
(CA INDEX NAME)

Double bond geometry as shown.



RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1996:590412 CAPLUS

DN 125:247789

TI Synthesis of Functionalized Trienes and Regioselective Formation of  
Medium-Ring Lactones through Intramolecular Diels-Alder Reaction

AU Deagostino, Annamaria; Maddaluno, Jacques; Prandi, Cristina; Venturello,  
Paolo

CS Dipartimento di Chimica Generale ed Organica Applicata, Universita di  
Torino, Turin, I 10125, Italy

SO Journal of Organic Chemistry (1996), 61(21), 7597-7599

CODEN: JOCEAH; ISSN: 0022-3263

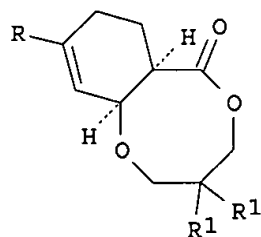
PB American Chemical Society

DT Journal

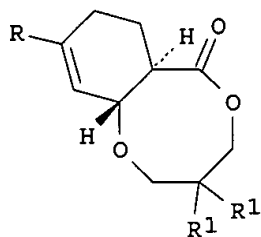
LA English

OS CASREACT 125:247789

GI



I



II

AB Intramol. Diels-Alder reaction of (E)-CH<sub>2</sub>:CRCH:CHOCH<sub>2</sub>CR<sub>1</sub>CH<sub>2</sub>OCOCH:CH<sub>2</sub> (R =  
R<sub>1</sub> = H, Me; R = H, R<sub>1</sub> = Me) gave fused lactones I and II regioselectively.  
The trans isomer is the thermodyn. favored isomer.

IT 182001-97-4P 182002-03-5P 182002-09-1P

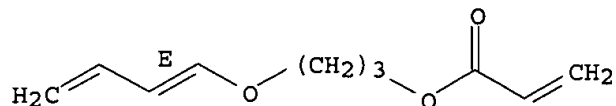
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)

(regioselective prepn of medium-ring lactones through intramol.  
Diels-Alder reaction of functionalized trienes)

RN 182001-97-4 CAPLUS

CN 2-Propenoic acid, 3-(1,3-butadienyloxy)propyl ester, (E)- (9CI) (CA INDEX NAME)

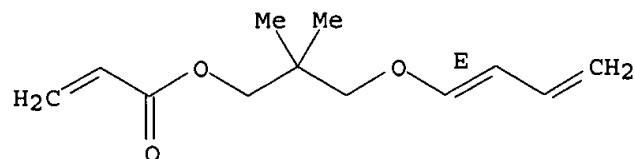
Double bond geometry as shown.



RN 182002-03-5 CAPLUS

CN 2-Propenoic acid, 3-(1,3-butadienyloxy)-2,2-dimethylpropyl ester, (E)- (9CI) (CA INDEX NAME)

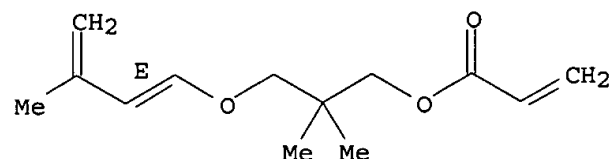
Double bond geometry as shown.



RN 182002-09-1 CAPLUS

CN 2-Propenoic acid, 2,2-dimethyl-3-[(3-methyl-1,3-butadienyl)oxy]propyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L20 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1996:534872 CAPLUS

DN 125:180932

TI Polymers for use in optical devices

IN Holmes, Andrew Bruce; Li, Xiao-Chang; Moratti, Stephen Carl; Murray, Kenneth Andrew; Friend, Richard Henry

PA Cambridge Display Technology Ltd., UK

SO PCT Int. Appl., 73 pp.

CODEN: PIXXD2

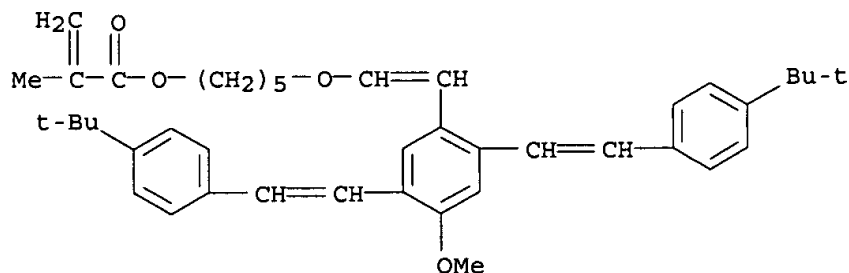
DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 9620253	A1	19960704	WO 1995-GB3043	19951228
	W: JP, KR, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 800563	A1	19971015	EP 1995-941813	19951228
	EP 800563	B1	20000712		
	R: DE, GB, NL				
	JP 10511718	T2	19981110	JP 1996-520312	19951228

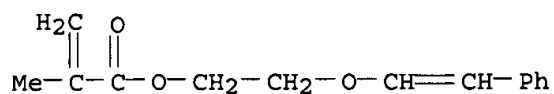
EP 1291406	A1	20030312	EP 2002-80081	19951228
R: DE, GB, NL				
JP 2003231740	A2	20030819	JP 2002-340806	19951228
EP 1006169	A1	20000607	EP 1999-124732	19991213
R: DE, GB, NL				
US 2003008991	A1	20030109	US 2000-561831	20000428
US 6559256	B2	20030506		
US 2003166810	A1	20030904	US 2002-313252	20021206
PRAI GB 1994-26288	A	19941228		
GB 1995-10155	A	19950519		
JP 1996-520312	A3	19951228		
WO 1995-GB3043	W	19951228		
EP 1995-941813	A3	19960704		
US 1997-875049	B3	19970624		
EP 1999-124732	A3	19991213		
US 2000-561847	A3	20000428		
AB	Semiconductive polymers capable of luminescence in an optical device are described which comprise a luminescent film-forming solvent-processible polymer which is crosslinked so as to increase its molar mass and to resist solvent dissoln., the crosslinking being such that the polymer retains its semiconductive and luminescent properties. Polymers capable of charge transport in an optical device are also described which comprise a film-forming polymer which is solvent processible or formed from a processible precursor polymer and which includes a charge transport segment in the polymer main chain or covalently linked thereto in a charge transport side chain. Optical devices (e.g., electroluminescent devices) employing the polymers are described. Processes for the prodn. of the semiconductive polymers entail providing a luminescent film-forming solvent-processible polymer and crosslinking the solvent processible polymer under conditions so as to increase its molar mass whereby the polymer is made resistant to solvent dissoln. and retains its semiconductive and luminescent properties.			
IT	180598-95-2P RL: DEV (Device component use); IMF (Industrial manufacture); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (crosslinked luminescent and charge transporting polymers for use in optical devices)			
RN	180598-95-2 CAPLUS			
CN	2-Propenoic acid, 2-methyl-, [4-(5-[1,1'-biphenyl]-4-yl-1,3,4-oxadiazol-2-yl)phenyl]methyl ester, polymer with 5-[[2-[2,5-bis[2-[4-(1,1-dimethylethyl)phenyl]ethenyl]-4-methoxyphenyl]ethenyl]oxy]pentyl 2-methyl-2-propenoate and 2-[(2-phenylethenyl)oxy]ethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)			
CM	1			
CRN	180598-94-1			
CMF	C42 H52 O4			



CM 2

CRN 180598-93-0

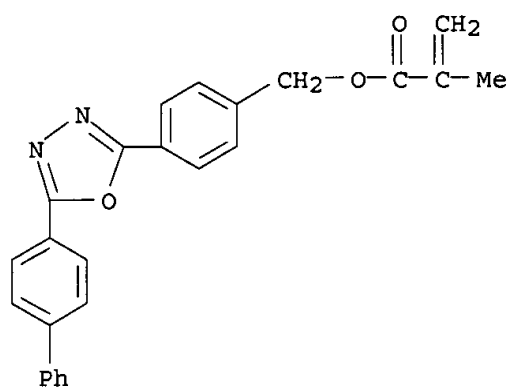
CMF C14 H16 O3



CM 3

CRN 173740-37-9

CMF C25 H20 N2 O3



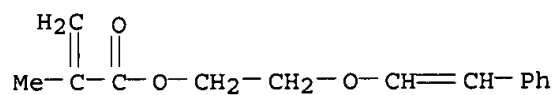
IT 180598-93-0 180598-94-1

RL: RCT (Reactant); RACT (Reactant or reagent)

(crosslinked luminescent and charge transporting polymers for use in optical devices)

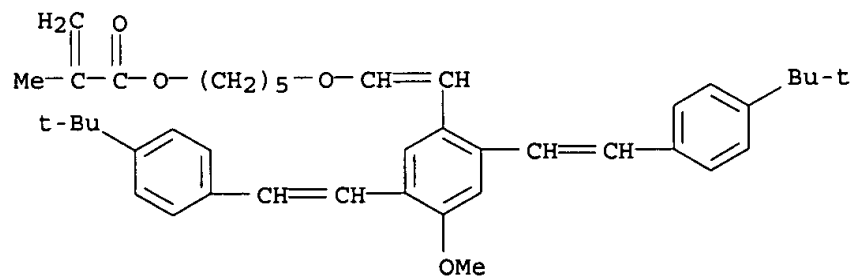
RN 180598-93-0 CAPLUS

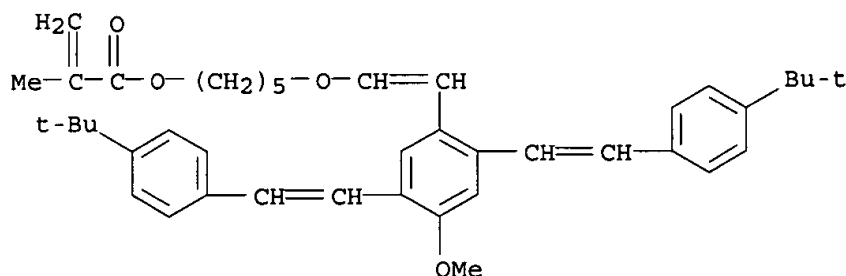
CN 2-Propenoic acid, 2-methyl-, 2-[(2-phenylethenyl)oxy]ethyl ester (9CI)  
(CA INDEX NAME)



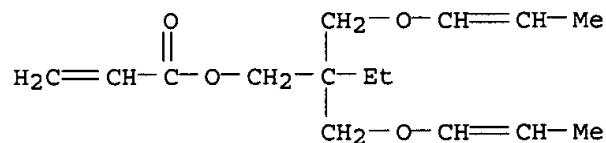
RN 180598-94-1 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 5-[[2-[2,5-bis[2-[4-(1,1-dimethylethyl)phenyl]ethenyl]-4-methoxyphenyl]ethenyl]oxy]pentyl ester (9CI) (CA INDEX NAME)





L20 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1996:531411 CAPLUS  
 DN 125:248546  
 TI Design of network polymers by photopolymerization  
 AU Crivello, James V.  
 CS Department Chemistry, Rensselaer Polytechnic Institute, Troy, NY, 12180, USA  
 SO Angewandte Makromolekulare Chemie (1996), 240, 83-90  
 CODEN: ANMCBO; ISSN: 0003-3146  
 PB Huethig & Wepf  
 DT Journal  
 LA English  
 AB The base and transition metal catalyzed isomerization of allyl and crotyl ethers affords a facile, high yield route to the prepn. of a variety of mono-, di-, and multifunctional 1-propenyl and 1-butenyl ethers. Employing this novel method, monomers contg. epoxide, ester, ether carbonate, and urethane groups can be prepd. from their readily available allyl and crotyl precursors. Very fast photoinduced cationic polymns. of these monomers using diaryliodonium and triarylsulfonium salt photoinitiators was investigated by real-time IR spectroscopy. Employing this technique, the effects of monomer and photoinitiator structure on the rates of polymn. were studied.  
 IT 179117-68-1P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of propenyl and butenyl ethers for polymer networks)  
 RN 179117-68-1 CAPLUS  
 CN 2-Propenoic acid, 2,2-bis[(1-propenyloxy)methyl]butyl ester, homopolymer (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 179117-67-0  
 CMF C15 H24 O4



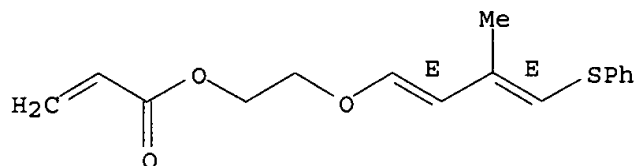
L20 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1996:440578 CAPLUS  
 DN 125:141895  
 TI Synthesis and Cycloaddition Reactions of 1-(Arylthio)-1,3-dienes. A Combined Experimental and Theoretical Study of Bicyclic Adducts Structures  
 AU Maddaluno, Jacques; Gaonac'h, Odile; Marcual, Albert; Toupet, Loic; Giessner-Prettre, Claude  
 CS Faculte des Sciences, Universite de Rouen, Mont St. Aignan, 76821, Fr.

SO Journal of Organic Chemistry (1996), 61(16), 5290-5306  
 CODEN: JOCEAH; ISSN: 0022-3263  
 PB American Chemical Society  
 DT Journal  
 LA English  
 AB A method giving simple access to various 1-(phenylthio)-4-substituted-1,3-dienes was described. The influence of the different functionalizations introduced on the dienic systems was tested in a set of classical [4+2] cycloaddn. reactions. Both the endo/exo and regio selectivities were investigated. While the endo compd. was, as expected, the only or major isomer in all cases, the regio competition between sulfur and oxygen was in favor of the oxygen substituent in the case studied here, in contrast to related works. For one type of adduct, X-ray crystallog. anal. and NMR spectroscopy were used in conjunction with ab initio and semiempirical AM1 calcns. to det. the structure and conformations of products as well as the energetic pathway from a primary concave endo cycloadduct to a rearranged bicyclic structure. The theor. results fully support the occurrence of a photochem. [1,3] sigmatropic shift of the thiophenyl group.

IT 179670-31-6P 179914-28-4P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (prepn. and cycloaddn. of (arylthio)dienes and theor. study of bicyclic adducts)

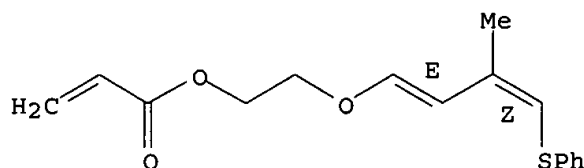
RN 179670-31-6 CAPLUS  
 CN 2-Propenoic acid, 2-[[3-methyl-4-(phenylthio)-1,3-butadienyl]oxy]ethyl ester, (E,E) - (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 179914-28-4 CAPLUS  
 CN 2-Propenoic acid, 2-[[3-methyl-4-(phenylthio)-1,3-butadienyl]oxy]ethyl ester, (Z,E) - (9CI) (CA INDEX NAME)

Double bond geometry as shown.

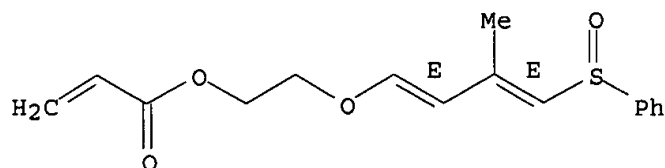


IT 179670-35-0P 179914-29-5P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. and cycloaddn. of (arylthio)dienes and theor. study of bicyclic adducts)

RN 179670-35-0 CAPLUS  
 CN 2-Propenoic acid, 2-[[3-methyl-4-(phenylsulfinyl)-1,3-butadienyl]oxy]ethyl ester, (E,E) - (9CI) (CA INDEX NAME)

Double bond geometry as shown.

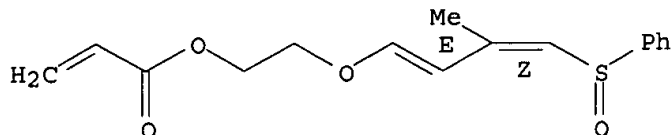




RN 179914-29-5 CAPLUS

CN 2-Propenoic acid, 2-[[3-methyl-4-(phenylsulfinyl)-1,3-butadienyl]oxy]ethyl ester, (Z,E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L20 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1996:390292 CAPLUS

DN 125:87292

TI The preparation of novel 1-propenyl ethers and their cationic photopolymerization

AU Crivello, J. V.; Lohden, G.

CS Dep. Chem., Rensselaer Polytech. Inst., Troy, NY, 12180, USA

SO Journal of Polymer Science, Part A: Polymer Chemistry (1996), 34(10), 2051-2062

CODEN: JPACEC; ISSN: 0887-624X

PB Wiley

DT Journal

LA English

AB A series of nine difunctional 1-propenyl ether monomers bearing ether, ester, carbonate, and urethane groups were prepd. based on trimethylolpropane diallyl ether as the starting material. The monomers were fully characterized and then subjected to photoinitiated cationic polymn. using diaryliodonium salts as photoinitiators. The course of the polymn. was followed using Fourier transform real-time IR spectroscopy and the relative reactivities of the various monomers were detd. The differences in reactivity could be related mainly to the basicity of the functional group introduced into the mol.

IT 179117-68-1P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (prepn. and cationic photopolymn. of 1-propenyl ether during isomerization)

RN 179117-68-1 CAPLUS

CN 2-Propenoic acid, 2,2-bis[(1-propenyloxy)methyl]butyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 179117-67-0

CMF C15 H24 O4

